IN THE CLAIMS:

- 1. (Previously Presented) A recursive motion vector estimation method, comprising the steps of:
- a) for a current block of a picture divided into a plurality of blocks, and based on motion information generated for the previously-processed block if any and if immediately to the left of said current block, the blocks being processed by said method in a predetermined order, generating (E) a plurality of candidate vectors from stored vectors (PV);
 - b) selecting (E) one of these candidate vectors to generate a selected vector (d1);
 - c) generating (REF) a plurality of test vectors from the selected vector (d¹);
 - d) selecting (REF) one of the test vectors to generate an output vector (d²); [and]
 - e) storing (MEM) the output vector (d²); and
- f) re-executing steps a) through f) for a next-to-be-processed block, if any, as said current block.
- 2. (Currently Amended) A recursive motion vector estimation method, comprising the steps of:

generating (E), for a block, a plurality of candidate vectors from stored vectors (PV);

selecting (E) one of these candidate vectors to generate a selected vector (d¹); generating (REF) a plurality of test vectors from the selected vector (d¹); selecting (REF) one of the test vectors to generate an output vector (d²); and storing (MEM) the output vector (d²) as one of said stored vectors for possible use in said generating for a next block, wherein said step of generating a plurality of test vectors from the selected vector (d¹) includes the step of adding -1, 0, or +1 to each component of the selected vector (d¹).

- 3. (Previously Presented) A device for recursive motion vector estimation, the device comprising:
- a) for a current block of a picture divided into a plurality of blocks, and based on motion information generated for the previously-processed block if any and if immediately to the left of said current block, the blocks being processed by said method in a predetermined order, means (E) for generating a plurality of candidate vectors from stored vectors;
- b) means (E) for selecting one of these candidate vectors to generate a selected vector (d¹);
- c) means (REF) for generating a plurality of test vectors from the selected vector (d^1) ;
- d) means (REF) for selecting one of the test vectors to generate an output vector (d^2) ;
 - e) means (MEM) for storing the output vector (d2); and
- f) re-executing steps a) through f) for a next-to-be-processed block, if any, as said current block.
- 4. (New) The method of claim 2, wherein said generating a plurality of test vectors from the selected vector (d^1) includes adding -1, 0, or +1 to each component of the selected vector (d^1) .
- 5. (New) The method of claim 2, wherein each of said block and said next block is one of the plural blocks of a picture divided into a plurality of blocks.

- 6. (New) The method of claim 2, a vector of said plurality of candidate vectors generated in the recursive method is generated based on a difference between said output vector and said selected vector.
- 7. (New) The method of claim 6, wherein the generating of said vector of said plurality comprises adding said difference to another vector of said plurality of candidate vectors.
- 8. (New) A device for recursive motion vector estimation, the device comprising: means for generating (E), for a block, a plurality of candidate vectors from stored vectors (PV);

means for selecting (E) one of these candidate vectors to generate a selected vector (d^1) ;

means for generating (REF) a plurality of test vectors from the selected vector (d^1) ;

means for selecting (REF) one of the test vectors to generate an output vector (d^2) ; and

means for storing (MEM) the output vector (d^2) as one of said stored vectors for possible use in said generating for a next block.

- 9. (New) The device of claim 8, wherein said generating a plurality of test vectors from the selected vector (d^1) includes adding -1, 0, or +1 to each component of the selected vector (d^1) .
- 10. (New) The device of claim 8, wherein each of said block and said next block is one of the plural blocks of a picture divided into a plurality of blocks.

- 11. (New) The device of claim 8, wherein a vector of said plurality of candidate vectors generated in the recursive estimation is generated based on a difference between said output vector and said selected vector.
- 12. (New) The device of claim 8, wherein the generating of said vector of said plurality comprises adding said difference to another vector of said plurality of candidate vectors.